

ATTY. DOCKET NO.

SERIAL NO.

604-591

INFORMATION DISCLOSURE CITATION

APPLICANT
R L VEECH

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FILING DATE

GROUP

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U.S. PATENT DOCUMENTS

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
JMS	4,579,955	01/04/86	Lammerant et al			22/02/83
	4,771,074	13/09/88	Lammerant et al			23/10/88
	4,067,999	10/01/78	Glabe et al			02/05/77
	4,351,835	28/09/82	Stanko			01/04/81
	4,363,815	14/12/82	Yu et al			30/04/80
	5,348,979	20/09/94	Nissen et al			23/12/92
	5,719,119	17/02/98	Veech			26/04/93
	5,654,266	05/08/97	Chen et al			28/03/94
	5,292,774	08/03/94	Hiraide et al			27/04/93
	4,997,976	05/03/91	Brunengraber et al			15/11/88
	5,126,373	30/01/92	Brunengraber et al			06/12/90
	5,116,868	26/05/92	Chen et al			03/05/89
	4,346,107	24/08/82	Cavazza et al			09/02/80
	4,929,449	29/05/90	Veech			17/12/86
	5,200,200	06/04/93	Veech			16/04/90
	5,912,269	15/01/99	Tung			30/04/96
	5,100,677	31/03/92	Veech			17/12/86
	4,983,766	08/01/91	Imwinkelried et al			23/12/88
	4,970,143	13/11/90	Guidoux et al			14/08/86
	4,701,443	20/10/87	Nelson et al			22/03/83
	5,693,850	02/12/97	Birkhahn et al			06/06/95
JMS	4,234,599	18/11/80	Van Scott et al			04/10/78
-						

Examiner

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11/17/01

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09/843694
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FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
9/11/82		0780123	22.11.1996	EP				
		0562188	27.03.1992	EP				
		0318357	15.11.1988	EP				
		WO 98/51812	12.05.1998	PCT				
		WO 99/34687	07.01.1999	PCT				
		0108820	10.11.1982	EP				
		0288908	21.04.1988	EP				
		0466050	05.07.1991	EP				
		WO 92/09211	21.11.1991	PCT				
		WO 92/09210	21.11.1991	PCT				
		WO 98/41201	17.03.1998	PCT				
		0552896	15.01.1993	EP				
9/11/82		2126082	12.08.82	GB				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

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James H. Hearn

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April 30, 2001

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

4108		"Biopolymers and -oligomers of (R)-3-Hydroxyalkanoic Acids – Contributions of synthetic Organic Chemists"; D Seebach et al; Ernst Schering Research Foundation; 1995
		"Biodegradation of cyclic and substituted linear oligomers of poly(3-hydroxybutyrate)"; Helmut Brandl et al; Can. J. Microbiol 41(Suppl. 1); 1995; Pages 180-186
		"Direct degradation of the biopolymer poly[(R)-3-hydroxybutyric acid] to (R)-3-hydroxybutanoic acid and its methyl ester"; D Seebach et al; Org. Synth. 71; 1992; Pages 39-47
		"Cyclische Oligomere von (R)-3-Hydroxybuttersäure: Herstellung und strukturelle Aspekte"; von Dietmar et al; Helvetica Chimica Acta; Vol 76; 1993; Pages 2004-2016
		"Poly(hydroxyalkanoates): A Fifth Class of Physiologically Important Organic Biopolymers?"; Hans-Martin Müller et al; Angew. Chem.; 1993
		"Intractable epilepsy"; Avinoam Scuper et al; The Lancet, Vol 353; April 10, 1999; Page 1238
		"Energy Metabolism and the Regulation of Metabolic Processes in Mitochondria"; R L Veech et al; Academic Press; 1972; Pages 170-183
		"Nontoxic Amyloid β Peptide ₁₋₄₂ suppresses Acetylcholine synthesis"; Minako Hoshi et al; The Journal of Biological Chemistry; Vol. 272, No. 4; January 1997; Pages 2038-2041
		"Alternate Fuel Utilization by Brain"; George F Cahill Jr et al; Cerebral Metabolism and Neural Function; Williams & Wilkins, London; Pages 234-242
		"Preparation and Structure of Oligolides from (R)-3-Hydroxypentanoic Acid and comparison with the Hydroxybutanoic-Acid Derivatives: A Small Change with Large Consequences"; Dieter Seebach et al; Helvetica Chimica Acta – Vol. 77; 1994; Pages 2007 – 2033
		"The Triolide of (R)-3-Hydroxybutyric acid – Direct Preparation from Polyhydroxybutyrate and Formation of a Crown Estercarbonyl Complex with Na Ions"; Dieter Seebach et al; Angew. Chem. Int.; 1992; Pages 434-435
		"Ketone bodies as substrates"; A J Rich; Proceedings of the Nutrition Society, Vol. 49; 1990; Pages 361-373
		"The Dimer and Trimer of 3-Hydroxybutyrate Oligomer as a Precursor of Ketone Bodies for Nutritional Care"; Osamu Tasaki et al; Journal of Parenteral and Enteral Nutrition, Vol. 23, No. 6; 1999; Pages 321-325
		"Effect of 3-hydroxybutyrate in obese subjects on very-low-energy diets and during therapeutic starvation"; G L S Pawan et al; The Lancet; January 1983; Pages 15-17
		"The untoward effects of the anions of dialysis fluids"; R L Veech et al; Kidney International, Vol 34; 1988; Pages 587-597
4109		"Transport of poly- β -hydroxybutyrate in human plasma"; Rosetta N. Reusch et al; Biochimica et Biophysica Acta 1123; 1992; Pages 33-40

Examiner

Date Considered

E. Inner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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(Use several sheets if necessary)

FILING DATE

GROUP

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

9102		"Human xenobiotic metabolizing esterases in liver and blood"; N W McCracken et al; Biochemical Pharmacology Vol. 46, No. 7; 1993; Pages 1125-1129
		"Detection, synthesis, structure, and function of oligo(3-hydroxyalkanoates): contributions by synthetic organic chemists"; Dieter Seebach et al; International Journal of Biological Macromolecules 25; 1999; Pages 217-236
		"Poly(hydroxyalkanoates): A Fifth Class of Physiologically Important Organic Biopolymers?" Hans-Martin Müller et al; Angewandte Chemie Vol. 32, No. 4; April 1993; Pages 477-502
		"The toxic impact of parenteral solutions on the metabolism of cells: a hypothesis for physiological parenteral therapy"; R L Veech et al; The American Journal of Clinical Nutrition 44; October 1986; Pages 519-551
		"Association between features of the insulin resistance syndrome and Alzheimer's disease independently of apolipoprotein E4 phenotype: cross sectional population based study"; Johanna Kuusisto et al; BMJ Vol. 315; 25 October 1997; Pages 1045-1049
		"Novel calcium ion channel is a pore without protein"; Karen Hopkin; The Journal of NIH Research Vol. 9; November 1997; Pages 25-26
		"Physiological Roles of Ketone Bodies as Substrates and Signals in Mammalian Tissues"; Alison M Robinson et al; Physiological Reviews Vol. 60, No. 1; January 1980; Pages 143-153
		"Proof for a nonproteinaceous calcium-selective channel in <i>Escherichia coli</i> by total synthesis from (R)-3-hydroxybutanoic acid and inorganic polyphosphate"; Sudipto Das et al; Proc. Natl. Acad. Sci. USA Vol. 94; August 1997; Pages 9075-9079
		"New clues to Alzheimer's disease: Unraveling the roles of amyloid and tau"; Bruce A Yankner; Nature Medicine Vol 2, No. 8; August 1996; Pages 850-852
		"An intracellular protein that binds amyloid- β peptide and mediates neurotoxicity in Alzheimer's disease"; Shi Du Yan et al; Nature, Vol 389; 16 October 1997; Pages 689-695
		"Alternate Fuel Utilization by Brain"; George F Cahill, Jr et al; Cerebral Metabolism and Neural Function; Williams & Wilkins; Chapter 26, Pages 234-242
		"Blood-Brain Barrier Transport of Metabolic Substrates"; William H Oldendorf; Cerebral Metabolism and Neural Function; Williams & Wilkins; Chapter 15, Pages 127-132
		" β -hydroxybutyrate suppresses pentylenetetrazol (PTZ) - induced seizures in young adult rats"; Sarah Lustig et al; Epilepsia, Vol. 39, Suppl. 6; 1998; 2.020; Page 36
		" β -hydroxybutyrate potentiates gaba _A -mediated inhibitory postsynaptic potentials in immature hippocampal CA1 neurons"; Shundi Ge et al; Epilepsia, Vol. 39, Suppl. 6; 1998; E.06; Page 135
9102		"The effect of ketone bodies, β -hydroxybutyrate, and acetoacetate on acute seizure activity in hippocampal CA1 neurons"; Charles E. Niesen et al; Epilepsia, Vol. 39, Suppl. 6; 1998; 2.015; Page 35

Examiner

Date Considered

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

AMR	***	"Biologica-Chemical preparation of 3-hydroxycarboxylic acids and their use in EPC-syntheses"; Dieter Seebach et al; Laboratorium für Organisch Chemie der Eidgenössischen Technischen Hochschule; Pages 85-126
		"Dietary Nonprotein calories and cerebral infarction size in rats"; Claudia Robertson et al; Stroke, Vol. 23, No.4; April 1992; Page 564-568
		"Hypoxia and β -hydroxybutyrate acutely reduce glucose extraction by the brain in anesthetized dogs"; Albert S Y Change et al; Can J Physiol Pharmacol, Vol. 71; 1993; Pages 465-472
		" γ -Hydroxybutyrate: Cerebral metabolic, Vascular, and Protective effects"; Alan A Artru et al; J Neurochem, Vol. 35, No. 5; 1980; Pages 1114-1119
		"Effect of sodium hydroxybutyrate on the cerebral circulation and regional vasomotor reflexes"; E A Bendikov et al; Plenum Publishing Corporation; 1980; Pages 1287-1292
		"Oxidative metabolism deficiencies in brains of patients with Alzheimer's disease"; S Hoyer; Acta Neurol Scand, Suppl. 165; 1996; Pages 18-24
		"The ins and outs of amyloid- β "; Konrad Beyreuther et al; Nature, Vol. 389; 16 October 1997; Pages 677-678
		"Metabolism of (R,S)-1,3-butanediol acetoacetate esters, potential parenteral and enteral nutrients in conscious pigs"; Sylvain Desrochers et al; The American Physiological Society; 1995; Pages 660-667
		"The Gibbs-Donnan Near-equilibrium System of Heart"; Takashi Masuda et al; The Journal of Biological Chemistry, Vol. 265, No. 33; 25 November 1990; Pages 20321-20334
		"Nutritional and metabolic studies in humans with 1,3-butanediol"; Richard B Tobin et al; Federation Proceedings Vol. 34, No. 12; November 1975; Pages 2171-2176
		"Utilization of 1,3-Butanediol and Nonspecific Nitrogen in Human Adults"; Constance Kies et al; Nebraska Agriculture Research Station Journal No. 3489; Pages 1155-1163
		"Alzheimer's Disease: Genotypes, Phenotype, and Treatments"; Dennis J Selkoe; Science, Vol. 275; 31 January 1997; Pages 630-631
		"The β/α Peak Height Ratio of ATP"; Kieran Clarke et al; The Journal of Biological Chemistry, Vol. 271, No. 35, 30 August 1996; Pages 21142-21150
		"Control of Glucose Utilization in Working Perfused Rat Heart"; Yoshishiro Kashiwaya et al; The Journal of Biological Chemistry, Vol. 269, No. 41; 14 October 1994; Pages 25502-25514
		"Regulation of mitochondrial pyruvate dehydrogenase activity by tau protein kinase I/glycogen synthase kinase 3 β in brain"; Minako Hoshi et al; Proc Natl. Acad. Sci. USA, Vol. 93; April 1996; Pages 2719-2723
		"Stress and Glucocorticoid; Rachel Yehuda; Science, Vol. 275; 14 March 1997; Pages 1662-1663
		"Nontoxic Amyloid β Peptide ₁₋₄₂ Suppresses acetylcholine synthesis"; Minako Hoshi et al; The Journal of Biological Chemistry, Vol. 272, No. 4; 24 January 1997; Pages 2038-2041
AMR		"Metabolic engineering and human disease"; Martin L Yarmush et al; Nature Biotechnology, Vol. 15; 15 June 1997; Pages 525-528

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MAC		"Metabolism of R- and S-1,3-butanediol in perfused livers from meal-fed and starved rats"; Sylvain Desrochers et al; Biochem. J. Vol. 285; 1992; Pages 647-653
		"Metabolism of 2,3-Butanediol Stereoisomers in the Perfused Rat Liver"; Jane A Montgomery et al; The Journal of Biological Chemistry, Vol. 268, No. 27; 1993; Pages 20185-20190
		"Nutritional and metabolic studies in humans with 1,3-butanediol"; Richard B Tobin et al; Federation Proceedings Vol. 34, No. 12; November 1975; Pages 2171-2176
		"Metabolic effects of a D-β-hydroxybutyrate infusion in septic patients: Inhibition of lipolysis and glucose production but not leucine oxidation"; Michel Beylot et al; Critical Care Medicine, Vol. 22, No. 7; July 1994; Pages 1091-1098
		"Hyperinsulinaemia and Alzheimer's Disease"; George Razay et al; Age and Ageing; 1994; Pages 398-399
		"Peripheral glucose metabolism and insulin sensitivity in Alzheimer's disease"; Kilander et al; Acta Neurol Scand; 1993; Page 294-298
		"Effect of Sodium Hydroxybutyrate of the cerebral circulation and regional vasomotor reflexes"; Bendikov et al; Byulleten' Eksperimental'noi Biologii i Meditsiny, Vol. 88 No. 11; November 1979; Pages 555-557
		"Tau protein Mutations confirmed as neuron killers"; Gretchen Vogel; Science, Vol. 280; 5 June 1998; Pages 1524-1525
		"Diagnosing dementia with Lewy bodies"; Ian G McKeith et al; The Lancet, Vol. 354; 9 October 1999; Pages 1227-1228
		"R,S-1,3-butanediol acetoacetate esters, potential alternates to lipid emulsions for total parenteral nutrition"; Sylvain Desrochers et al; Nutritional Biochemistry Vol. 6; 1995; Pages 111-118
		"Substrate signaling by insulin: a ketone bodies ratio mimics insulin action in heart"; Yoshihiro Kashiwaya et al; The American Journal of Cardiology, Vol. 80 (3A); 4 August 1997; Pages 50-64
		"Insulin, ketone bodies, and mitochondrial energy transduction"; Kiyotaka Sato et al; The FASEB Journal, Vol 9; May 1995; Pages 651-658
		"Regulation of GABA Level in Rat Brain Synaptosomes: Fluxes through enzymes of the GABA shunt and effects of glutamate, calcium, and ketone bodies"; Maria Erecińska et al; Journal of Neurochemistry, Vol. 67, No. 6; 1996; Pages 2325-2334
MAC		"The Metabolism of Acetone in Rat"; Joseph P Cassazza et al; The Journal of Biological Chemistry, Vol. 259, No. 1; 10 January 1984; Pages 231-236

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